

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331805-930

Luminaire Tested: **S122RDIW-S675D435U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331805-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S675D435U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3482.4 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

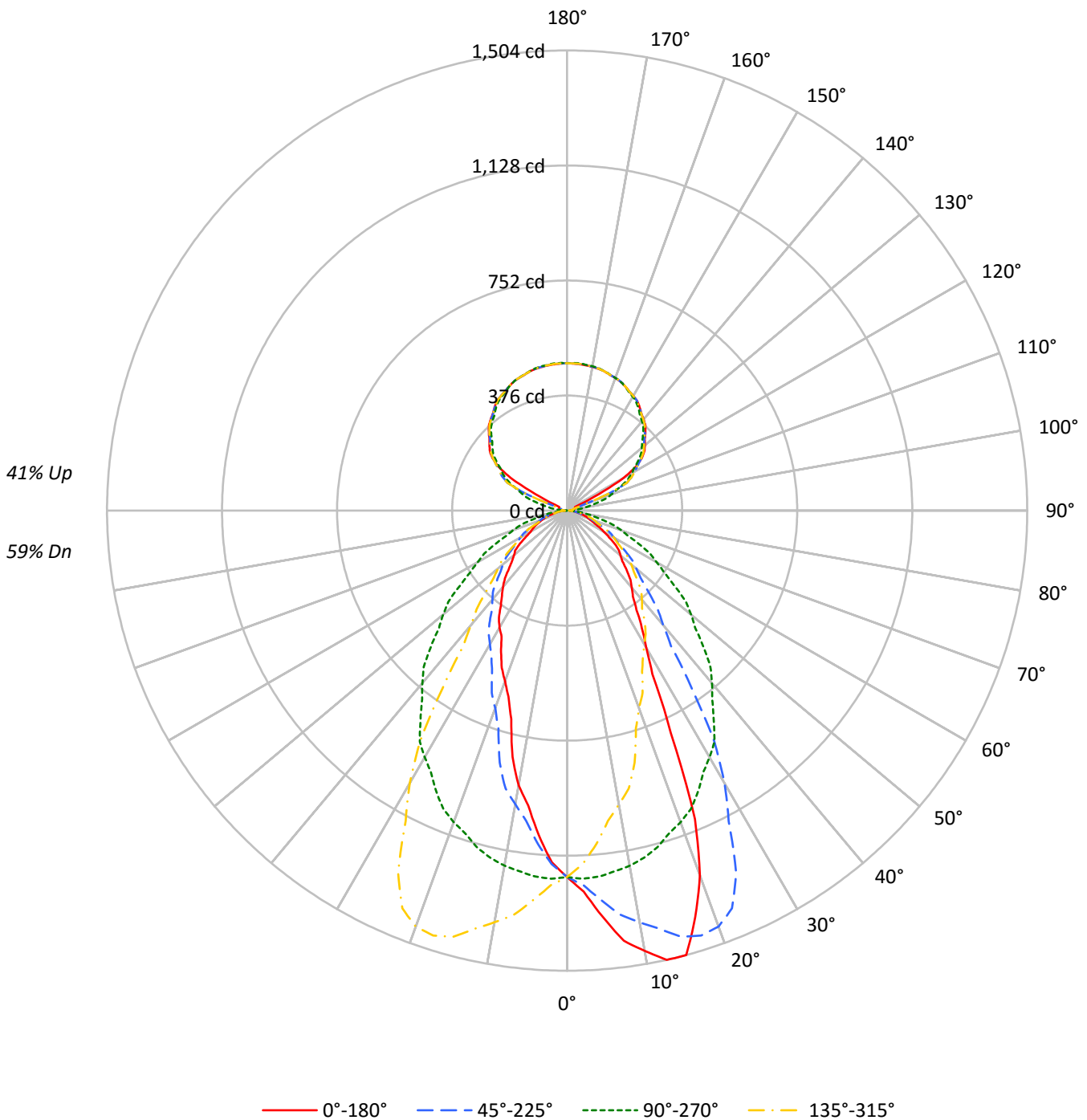
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	101	97	93	90	94	91	87	85	79	77	75	68	67	65	59	58	57	52
2	93	86	80	75	86	80	75	71	70	67	63	61	59	56	53	51	49	45
3	85	76	69	64	79	72	66	61	63	58	55	55	52	49	48	45	43	39
4	78	68	61	55	73	64	58	52	57	52	48	50	46	43	43	40	38	35
5	73	61	54	48	68	58	51	46	51	46	42	45	41	38	40	36	34	31
6	67	56	48	42	63	53	46	41	47	41	37	42	37	34	36	33	30	28
7	63	51	43	38	58	48	41	36	43	37	33	38	34	30	34	30	28	25
8	58	46	39	34	55	44	37	33	40	34	30	35	31	28	31	28	25	23
9	55	43	35	31	51	41	34	29	37	31	27	33	28	25	29	26	23	21
10	51	39	32	28	48	38	31	27	34	29	25	30	26	23	27	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19339	19339	19339	19339
5°	21598	19460	17253	19460
10°	23963	19323	14955	19323
15°	25142	19041	11784	19041
20°	21795	18620	10198	18620
25°	14295	18045	9103	18045
30°	9622	17350	8240	17350
35°	7792	16472	7433	16472
40°	6930	15517	6877	15517
45°	6272	14397	6140	14397
50°	5707	13288	5687	13288
55°	5365	12056	5295	12056
60°	4489	10924	4434	10924
65°	3786	9922	4290	9922
70°	3498	8861	4050	8861
75°	3269	7711	3737	7711
80°	3013	6341	3329	6341
85°	2779	5020	2927	5020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.3
10°-20°	316.4	9.1
20°-30°	407.7	11.7
30°-40°	387.4	11.1
40°-50°	331.9	9.5
50°-60°	252.7	7.3
60°-70°	159.8	4.6
70°-80°	79.8	2.3
80°-90°	22.0	0.6
90°-100°	16.1	0.5
100°-110°	58.9	1.7
110°-120°	157.5	4.5
120°-130°	259.9	7.5
130°-140°	276.4	7.9
140°-150°	256.9	7.4
150°-160°	206.6	5.9
160°-170°	133.1	3.8
170°-180°	45.8	1.3
0°-30°	837.6	24.1
0°-40°	1225.0	35.2
0°-60°	1809.6	52.0
0°-90°	2071.1	59.5
90°-120°	232.4	6.7
90°-150°	1025.8	29.5
90°-180°	1411.0	40.5
0°-180°	3482.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1198	1198	1198	1198	1198	
5°	1333	1201	1064	1201	1333	132
15°	1504	1139	705	1139	1504	406
25°	802	1013	511	1013	802	381
35°	395	836	377	836	395	253
45°	275	630	269	630	275	213
55°	191	428	188	428	191	167
65°	99	260	112	260	99	101
75°	52	124	60	124	52	56
85°	15	27	16	27	15	16
90°	9	0	9	0	9	5
95°	15	23	15	23	15	14
105°	26	106	26	106	26	28
115°	28	200	28	200	28	72
125°	298	283	298	283	298	258
135°	362	351	362	351	362	279
145°	413	407	413	407	413	258
155°	448	448	448	448	448	207
165°	471	472	471	472	471	133
175°	480	483	480	483	480	46
180°	482	482	482	482	482	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1246.3	1247.3	1248.4	1246.0	1246.0	1244.0	1239.7	1236.4	1227.0	1225.7	1225.7
5°	1332.6	1331.7	1333.4	1328.0	1320.5	1318.8	1310.9	1300.6	1289.7	1277.7	1275.1
7.5°	1418.3	1417.1	1413.7	1412.8	1407.0	1394.5	1381.8	1368.2	1350.2	1332.7	1323.9
10°	1461.6	1475.4	1467.0	1452.5	1455.4	1435.8	1425.4	1407.5	1392.5	1366.3	1360.5
12.5°	1504.2	1509.6	1507.0	1498.7	1494.9	1481.4	1467.4	1451.8	1424.2	1400.6	1380.1
15°	1504.1	1512.0	1514.0	1511.6	1513.6	1512.8	1505.3	1492.4	1468.3	1442.4	1420.0
17.5°	1393.0	1398.5	1412.2	1421.4	1433.1	1457.7	1469.8	1474.6	1471.0	1456.3	1440.5
20°	1268.5	1259.3	1297.6	1317.2	1333.8	1375.4	1411.2	1425.0	1447.0	1446.6	1442.4
22.5°	1092.0	1094.2	1130.5	1153.7	1202.3	1243.9	1284.7	1336.4	1379.1	1407.3	1423.8
25°	802.4	818.2	854.4	886.1	940.1	1017.6	1087.9	1169.5	1246.4	1307.2	1365.1
27.5°	602.6	603.8	632.5	661.7	693.8	757.2	845.8	943.2	1053.0	1143.5	1247.7
30°	516.1	513.6	525.6	543.6	571.0	620.1	686.6	782.4	891.9	1028.3	1149.9
32.5°	454.8	454.9	464.1	477.3	500.1	533.2	578.8	656.6	760.0	894.2	1036.7
35°	395.3	394.9	401.6	411.2	420.8	442.0	473.2	514.0	585.1	710.4	856.1
37.5°	352.8	354.6	357.8	363.8	374.4	386.2	405.0	432.4	483.0	557.1	679.6
40°	328.8	329.6	334.2	339.2	345.4	354.6	370.0	392.0	429.1	488.2	577.6
42.5°	306.8	307.6	310.9	315.5	320.4	329.6	342.3	361.4	391.4	437.6	511.4
45°	274.7	274.7	277.6	279.6	285.1	293.4	303.8	319.6	340.5	374.5	423.6
47.5°	244.5	244.6	246.5	250.1	253.6	260.0	270.3	283.2	298.3	324.7	366.6
50°	227.2	227.6	228.9	231.8	233.9	239.7	247.6	258.9	274.7	295.1	330.0
52.5°	213.3	213.0	214.6	215.8	217.3	221.4	227.3	237.3	251.4	269.1	298.1
55°	190.6	188.9	191.4	193.6	194.8	196.4	199.7	206.0	218.1	233.1	254.7
57.5°	162.3	161.7	163.4	165.3	169.3	173.7	176.5	180.5	186.8	197.5	219.0
60°	139.0	139.0	142.8	144.0	148.5	154.4	160.2	163.5	169.8	176.8	192.7
62.5°	118.4	118.7	120.4	121.7	124.3	131.4	139.6	146.9	152.8	159.6	170.1
65°	99.1	99.9	99.9	100.7	102.4	104.0	107.4	113.2	123.6	133.1	141.0
67.5°	84.1	84.3	84.5	85.4	85.9	87.6	88.9	91.6	94.0	103.1	112.8
70°	74.1	75.3	74.9	75.7	76.1	77.0	78.7	79.9	83.6	85.8	91.6
72.5°	64.7	65.6	65.6	66.1	67.2	67.3	68.6	70.0	72.3	74.1	77.2
75°	52.4	52.0	52.4	53.2	53.6	54.1	54.1	55.8	57.0	58.7	60.7
77.5°	40.4	40.8	40.8	40.8	40.9	41.7	41.6	42.4	43.6	44.4	45.4
80°	32.4	32.9	32.4	32.9	33.3	33.7	33.3	33.7	35.0	35.8	35.8
82.5°	25.1	25.2	25.4	25.5	25.6	25.7	26.3	26.4	27.3	27.1	27.5
85°	15.0	14.6	14.6	14.6	15.0	15.4	15.0	15.0	15.4	15.4	15.4
87.5°	7.2	7.5	7.5	7.4	7.4	7.3	7.3	7.6	7.1	7.4	6.9
90°	9.4	9.3	9.1	9.0	8.8	8.5	8.2	7.7	7.3	6.9	6.4
92.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.7	8.5	8.3	8.1	7.7
95°	15.0	15.1	15.2	15.2	15.3	15.2	14.8	14.3	13.9	13.6	13.0
97.5°	20.0	19.9	19.8	19.7	19.6	19.4	19.2	18.8	18.5	18.2	17.0
100°	23.3	23.2	23.1	22.9	22.7	22.3	21.7	21.1	20.5	19.9	18.5
102.5°	25.0	24.8	24.6	24.4	24.1	23.6	22.8	22.0	21.2	20.4	31.5
105°	26.5	26.2	25.8	25.5	25.3	24.7	23.8	23.0	22.1	21.3	42.4
107.5°	27.2	26.9	26.7	26.3	26.0	26.3	27.1	28.0	28.9	29.8	55.1
110°	27.6	27.2	26.9	26.6	26.3	30.0	37.7	45.5	53.2	61.0	83.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.8	27.6	27.3	27.1	26.8	40.8	69.1	97.3	125.6	153.8	159.3
115°	28.5	34.2	39.7	45.3	50.9	71.6	107.5	143.3	179.1	215.0	213.0
117.5°	116.7	135.0	153.3	171.6	190.0	203.4	212.1	220.8	229.5	238.1	236.8
120°	212.5	223.0	233.5	243.9	254.4	259.2	258.2	257.3	256.3	255.4	254.0
122.5°	265.2	267.3	269.3	271.3	273.4	274.1	273.5	273.0	272.5	271.9	270.4
125°	297.9	297.7	297.5	297.3	297.0	296.6	296.1	295.5	295.0	294.5	293.0
127.5°	318.5	318.5	318.5	318.5	318.4	318.0	317.2	316.4	315.6	314.8	313.7
130°	331.4	331.5	331.6	331.7	331.7	331.3	330.4	329.6	328.7	327.9	327.1
132.5°	344.0	344.1	344.1	344.1	344.2	343.9	343.2	342.5	341.8	341.0	340.1
135°	362.1	362.2	362.4	362.6	362.6	362.4	361.6	360.9	360.0	359.3	358.6
137.5°	378.5	378.9	379.1	379.4	379.6	379.4	378.6	377.9	377.1	376.3	375.5
140°	388.9	389.3	389.6	390.0	390.4	390.3	389.6	388.9	388.2	387.5	386.6
142.5°	398.9	399.3	399.7	400.1	400.5	400.4	399.7	399.1	398.4	397.8	396.8
145°	412.9	413.4	413.7	414.1	414.5	414.4	413.8	413.4	412.8	412.2	410.9
147.5°	425.3	425.6	425.9	426.2	426.6	426.6	426.2	425.7	425.3	424.9	423.6
150°	432.8	433.2	433.6	434.0	434.4	434.3	433.8	433.4	432.9	432.4	431.2
152.5°	439.2	439.7	440.3	440.8	441.2	441.3	440.8	440.3	439.9	439.4	438.2
155°	448.2	448.7	449.4	450.0	450.6	450.7	450.2	449.8	449.3	448.8	447.9
157.5°	456.3	456.9	457.5	458.1	458.7	458.8	458.2	457.7	457.1	456.6	456.0
160°	461.1	461.5	462.1	462.7	463.2	463.3	462.8	462.3	461.9	461.4	460.9
162.5°	465.0	465.6	466.3	466.9	467.6	467.7	467.2	466.6	466.1	465.5	465.1
165°	470.8	471.3	471.9	472.4	473.0	473.0	472.4	471.9	471.3	470.8	470.6
167.5°	474.5	475.2	475.9	476.5	477.3	477.4	476.8	476.3	475.7	475.2	475.0
170°	476.7	477.4	478.1	478.8	479.5	479.6	479.1	478.5	477.9	477.4	477.3
172.5°	478.4	479.1	479.8	480.5	481.2	481.3	480.7	480.1	479.6	479.1	478.9
175°	479.9	480.6	481.4	482.2	483.0	483.1	482.5	482.0	481.4	480.9	480.7
177.5°	480.8	481.3	481.8	482.4	483.0	483.1	482.6	482.2	481.8	481.3	481.3
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1226.4	1223.7	1221.4	1215.4	1212.4	1205.7	1204.8	1204.4	1195.7	1187.4	1185.1
5°	1268.5	1261.8	1251.8	1240.2	1228.1	1215.6	1207.3	1200.7	1184.0	1168.2	1159.0
7.5°	1310.9	1296.7	1279.4	1257.4	1238.9	1218.3	1203.0	1189.3	1165.6	1143.0	1127.7
10°	1342.6	1319.2	1296.4	1266.0	1242.3	1219.0	1197.3	1178.6	1151.9	1122.0	1100.7
12.5°	1362.2	1336.6	1305.0	1275.3	1244.6	1215.0	1186.0	1162.0	1130.7	1099.7	1074.5
15°	1388.8	1361.3	1323.0	1280.6	1241.0	1202.3	1169.1	1139.1	1098.3	1061.3	1030.5
17.5°	1410.5	1372.7	1331.5	1282.5	1236.7	1187.5	1144.6	1106.4	1060.9	1016.3	980.0
20°	1417.5	1380.1	1332.6	1283.4	1229.4	1171.5	1125.4	1083.7	1035.0	986.3	944.7
22.5°	1413.2	1384.1	1331.2	1272.5	1217.1	1156.5	1104.3	1056.1	1002.1	952.4	904.1
25°	1383.8	1373.8	1323.9	1259.7	1196.5	1126.2	1065.8	1012.9	951.4	898.1	845.6
27.5°	1315.2	1336.8	1305.9	1237.6	1167.3	1091.8	1024.0	963.8	899.9	840.0	787.7
30°	1249.4	1298.9	1285.6	1222.3	1143.6	1069.6	993.4	930.6	862.3	800.7	749.1
32.5°	1159.1	1241.0	1253.9	1201.0	1119.7	1038.3	958.5	895.9	824.7	759.8	709.5
35°	1015.5	1137.8	1194.0	1160.3	1078.7	990.9	908.5	835.7	764.1	700.0	650.0
37.5°	844.1	1010.7	1104.3	1106.8	1031.8	940.5	850.8	778.5	705.2	642.3	588.3
40°	732.9	913.5	1035.4	1062.5	999.2	900.6	809.8	736.2	664.6	603.0	541.0
42.5°	633.0	812.9	962.9	1009.9	959.6	861.6	770.6	693.6	624.0	565.7	502.4
45°	511.9	669.2	834.5	918.5	890.6	799.9	703.8	630.5	565.2	514.8	454.0
47.5°	431.8	542.7	702.5	816.3	815.8	733.0	638.4	568.3	507.7	460.5	411.2
50°	386.2	482.7	618.0	747.1	757.8	688.4	598.4	529.0	472.4	422.8	383.3
52.5°	345.3	424.9	546.4	670.1	700.9	640.7	553.5	489.3	434.4	388.9	355.0
55°	291.7	353.4	445.7	561.4	608.1	565.6	488.2	428.3	383.7	345.4	316.3
57.5°	246.8	293.0	367.1	460.3	514.5	487.9	424.0	375.3	337.2	302.6	279.6
60°	218.5	256.3	319.2	397.1	457.0	438.2	383.7	338.3	305.9	275.9	254.3
62.5°	191.8	224.4	278.3	341.4	396.4	388.7	344.1	306.1	277.6	250.3	232.0
65°	154.4	178.1	220.1	269.7	313.8	317.6	285.5	259.7	234.3	212.6	196.4
67.5°	122.9	138.4	168.0	209.8	242.8	254.6	235.1	215.3	195.2	178.5	164.4
70°	103.6	116.1	137.8	171.5	201.9	214.3	203.1	187.7	170.2	156.5	144.4
72.5°	84.0	96.1	112.1	136.8	162.9	176.3	172.4	161.4	147.2	135.8	124.4
75°	63.3	67.0	77.9	94.5	114.9	126.5	129.5	123.6	112.3	103.6	96.9
77.5°	46.8	49.0	54.2	62.9	76.2	86.7	90.9	90.3	82.5	77.4	71.2
80°	37.4	38.7	41.2	44.9	55.0	65.3	68.2	68.2	62.9	60.7	54.5
82.5°	28.5	29.4	30.9	32.9	37.6	46.7	50.0	50.6	47.2	44.4	39.5
85°	16.2	15.8	16.6	17.9	18.8	21.2	26.3	27.1	26.3	22.9	21.6
87.5°	6.8	7.0	6.9	6.4	6.6	6.8	8.2	9.7	8.6	7.7	7.3
90°	5.7	5.1	4.5	3.8	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.5	7.2	6.8	6.8	6.8	6.8	6.9	7.0	6.9	6.8	6.8
95°	12.5	12.0	11.4	12.4	15.0	17.5	20.1	22.7	20.1	17.5	15.0
97.5°	15.7	14.4	13.2	16.1	23.3	30.6	37.7	44.9	37.7	30.6	23.3
100°	17.2	15.9	14.6	19.2	29.8	40.4	51.0	61.7	51.0	40.4	29.8
102.5°	42.5	53.5	64.5	71.1	73.4	75.6	77.9	80.1	77.9	75.6	73.4
105°	63.5	84.7	105.8	115.2	112.9	110.6	108.3	105.9	108.3	110.6	112.9
107.5°	80.5	105.8	131.2	142.9	141.0	139.2	137.3	135.4	137.3	139.2	141.0
110°	105.7	128.1	150.5	160.9	159.2	157.6	156.0	154.3	156.0	157.6	159.2



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.9	170.4	175.9	178.0	176.5	175.1	173.7	172.2	173.7	175.1	176.5
115°	211.2	209.2	207.2	205.6	204.3	203.0	201.7	200.4	201.7	203.0	204.3
117.5°	235.5	234.2	232.8	231.4	229.9	228.4	227.0	225.5	227.0	228.4	229.9
120°	252.7	251.3	249.9	248.6	247.4	246.2	245.1	243.9	245.1	246.2	247.4
122.5°	268.8	267.3	265.8	264.4	263.2	262.0	260.7	259.5	260.7	262.0	263.2
125°	291.6	290.1	288.5	287.3	286.3	285.4	284.3	283.3	284.3	285.4	286.3
127.5°	312.6	311.5	310.4	309.3	308.2	307.0	306.0	304.8	306.0	307.0	308.2
130°	326.2	325.4	324.5	323.4	322.2	321.0	319.8	318.5	319.8	321.0	322.2
132.5°	339.3	338.4	337.6	336.6	335.6	334.5	333.5	332.5	333.5	334.5	335.6
135°	357.9	357.2	356.4	355.6	354.2	353.0	351.8	350.6	351.8	353.0	354.2
137.5°	374.8	374.0	373.2	372.3	371.5	370.6	369.7	368.9	369.7	370.6	371.5
140°	385.8	385.0	384.1	383.4	382.7	382.1	381.5	380.9	381.5	382.1	382.7
142.5°	395.8	394.8	394.0	393.1	392.6	392.0	391.5	390.9	391.5	392.0	392.6
145°	409.6	408.3	407.0	406.3	406.4	406.5	406.6	406.7	406.6	406.5	406.4
147.5°	422.3	421.0	419.7	419.2	419.6	419.8	420.1	420.4	420.1	419.8	419.6
150°	430.0	428.8	427.5	427.1	427.7	428.2	428.8	429.3	428.8	428.2	427.7
152.5°	437.1	435.9	434.7	434.4	435.0	435.6	436.3	436.8	436.3	435.6	435.0
155°	446.9	446.1	445.2	445.0	445.7	446.4	447.1	447.8	447.1	446.4	445.7
157.5°	455.3	454.7	454.0	454.0	454.6	455.2	455.8	456.3	455.8	455.2	454.6
160°	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4	460.9	460.5	460.0
162.5°	464.7	464.3	464.0	464.0	464.5	464.9	465.4	465.9	465.4	464.9	464.5
165°	470.3	470.1	469.9	469.9	470.4	470.9	471.4	471.8	471.4	470.9	470.4
167.5°	474.7	474.5	474.3	474.4	474.9	475.4	475.8	476.3	475.8	475.4	474.9
170°	477.1	477.0	476.8	477.0	477.4	477.8	478.3	478.8	478.3	477.8	477.4
172.5°	478.7	478.6	478.5	478.6	479.1	479.6	480.0	480.5	480.0	479.6	479.1
175°	480.6	480.5	480.3	480.5	481.0	481.5	482.1	482.7	482.1	481.5	481.0
177.5°	481.2	481.1	481.0	481.3	481.7	482.1	482.6	483.0	482.6	482.1	481.7
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1180.8	1178.4	1174.1	1167.4	1163.4	1156.4	1151.8	1154.5	1155.1	1154.5	1153.8
5°	1149.1	1140.3	1128.2	1116.6	1105.8	1094.1	1087.4	1084.5	1078.7	1075.4	1073.7
7.5°	1110.7	1095.6	1078.6	1058.3	1041.0	1023.0	1013.7	1009.1	997.2	990.8	985.0
10°	1082.1	1058.3	1041.3	1014.6	998.4	974.7	958.5	958.9	942.6	933.4	926.8
12.5°	1050.4	1024.3	996.0	972.0	949.4	930.4	910.9	902.9	885.7	876.9	858.9
15°	998.0	967.6	937.7	905.1	882.3	852.7	824.4	789.9	762.0	737.8	731.2
17.5°	940.7	903.1	873.0	834.9	795.7	746.0	713.2	693.2	676.4	663.7	654.1
20°	901.4	863.2	831.1	773.6	720.8	687.1	663.0	647.6	630.1	616.4	608.9
22.5°	860.1	820.2	776.5	712.4	671.2	644.2	622.6	605.0	593.1	582.4	575.6
25°	801.5	757.8	685.8	641.7	608.5	580.2	565.2	554.3	541.8	527.3	520.7
27.5°	739.6	670.1	618.4	585.6	553.8	535.4	522.0	505.8	494.6	488.1	481.2
30°	693.3	623.9	583.5	547.7	525.2	504.8	489.0	479.9	469.0	457.8	453.2
32.5°	641.7	586.2	547.6	517.7	494.9	477.5	465.0	450.2	442.4	435.5	425.9
35°	577.6	535.7	500.3	476.1	454.4	440.3	425.7	417.0	402.8	397.1	393.3
37.5°	523.3	486.9	460.6	435.0	417.9	402.3	393.4	379.4	373.3	365.3	357.3
40°	492.8	457.0	431.5	410.7	391.6	379.9	368.8	357.5	348.3	344.6	335.0
42.5°	461.5	432.4	406.9	384.1	371.3	359.0	344.8	336.6	327.0	321.0	315.0
45°	418.2	392.5	370.8	352.0	337.9	325.1	315.8	302.1	296.8	284.6	279.6
47.5°	380.3	356.3	335.7	317.9	304.0	295.6	282.3	271.5	262.9	255.4	249.1
50°	353.4	333.4	313.4	297.6	285.1	273.0	259.3	253.9	240.5	236.8	233.1
52.5°	328.7	309.7	291.4	275.9	263.4	251.7	239.6	232.5	223.6	219.8	217.1
55°	294.2	275.9	258.4	244.7	232.2	220.1	212.6	203.9	199.7	196.8	193.6
57.5°	259.6	243.1	229.8	215.8	203.3	193.7	185.0	179.8	175.5	171.6	167.6
60°	237.7	221.8	209.8	196.8	183.9	176.0	169.4	163.1	158.2	152.3	150.7
62.5°	214.3	200.5	189.5	176.8	165.7	158.4	152.1	146.2	140.1	131.7	129.3
65°	182.3	171.5	159.8	149.4	139.4	132.3	123.2	116.5	114.1	113.2	112.8
67.5°	153.4	143.1	133.1	122.5	113.3	106.8	102.2	101.1	99.4	98.9	97.8
70°	134.0	124.4	114.5	104.4	95.7	94.5	92.8	91.2	89.0	88.2	87.4
72.5°	116.7	106.8	96.8	88.8	85.0	83.5	81.9	80.1	78.8	77.9	77.4
75°	89.4	80.3	73.7	70.8	68.6	67.4	64.9	63.7	62.9	61.6	61.1
77.5°	64.4	59.3	56.2	54.4	52.2	50.9	49.4	48.2	47.3	47.0	46.4
80°	49.1	46.6	44.5	42.1	41.2	39.5	39.1	37.9	38.3	37.0	37.0
82.5°	38.2	35.0	33.2	32.0	31.2	29.9	29.4	28.9	28.9	28.0	28.0
85°	19.6	18.8	17.9	17.0	17.0	15.8	16.2	15.8	15.8	15.0	14.6
87.5°	7.1	6.9	6.4	6.4	6.6	6.4	6.4	6.2	6.3	6.4	6.1
90°	3.8	4.5	5.1	5.7	6.4	6.9	7.3	7.7	8.2	8.5	8.8
92.5°	6.8	6.8	7.2	7.5	7.7	8.1	8.3	8.5	8.7	8.9	9.0
95°	12.4	11.4	12.0	12.5	13.0	13.6	13.9	14.3	14.8	15.2	15.3
97.5°	16.1	13.2	14.4	15.7	17.0	18.2	18.5	18.8	19.2	19.4	19.6
100°	19.2	14.6	15.9	17.2	18.5	19.9	20.5	21.1	21.7	22.3	22.7
102.5°	71.1	64.5	53.5	42.5	31.5	20.4	21.2	22.0	22.8	23.6	24.1
105°	115.2	105.8	84.7	63.5	42.4	21.3	22.1	23.0	23.8	24.7	25.3
107.5°	142.9	131.2	105.8	80.5	55.1	29.8	28.9	28.0	27.1	26.3	26.0
110°	160.9	150.5	128.1	105.7	83.3	61.0	53.2	45.5	37.7	30.0	26.3



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	178.0	175.9	170.4	164.9	159.3	153.8	125.6	97.3	69.1	40.8	26.8
115°	205.6	207.2	209.2	211.2	213.0	215.0	179.1	143.3	107.5	71.6	50.9
117.5°	231.4	232.8	234.2	235.5	236.8	238.1	229.5	220.8	212.1	203.4	190.0
120°	248.6	249.9	251.3	252.7	254.0	255.4	256.3	257.3	258.2	259.2	254.4
122.5°	264.4	265.8	267.3	268.8	270.4	271.9	272.5	273.0	273.5	274.1	273.4
125°	287.3	288.5	290.1	291.6	293.0	294.5	295.0	295.5	296.1	296.6	297.0
127.5°	309.3	310.4	311.5	312.6	313.7	314.8	315.6	316.4	317.2	318.0	318.4
130°	323.4	324.5	325.4	326.2	327.1	327.9	328.7	329.6	330.4	331.3	331.7
132.5°	336.6	337.6	338.4	339.3	340.1	341.0	341.8	342.5	343.2	343.9	344.2
135°	355.6	356.4	357.2	357.9	358.6	359.3	360.0	360.9	361.6	362.4	362.6
137.5°	372.3	373.2	374.0	374.8	375.5	376.3	377.1	377.9	378.6	379.4	379.6
140°	383.4	384.1	385.0	385.8	386.6	387.5	388.2	388.9	389.6	390.3	390.4
142.5°	393.1	394.0	394.8	395.8	396.8	397.8	398.4	399.1	399.7	400.4	400.5
145°	406.3	407.0	408.3	409.6	410.9	412.2	412.8	413.4	413.8	414.4	414.5
147.5°	419.2	419.7	421.0	422.3	423.6	424.9	425.3	425.7	426.2	426.6	426.6
150°	427.1	427.5	428.8	430.0	431.2	432.4	432.9	433.4	433.8	434.3	434.4
152.5°	434.4	434.7	435.9	437.1	438.2	439.4	439.9	440.3	440.8	441.3	441.2
155°	445.0	445.2	446.1	446.9	447.9	448.8	449.3	449.8	450.2	450.7	450.6
157.5°	454.0	454.0	454.7	455.3	456.0	456.6	457.1	457.7	458.2	458.8	458.7
160°	459.5	459.5	460.0	460.5	460.9	461.4	461.9	462.3	462.8	463.3	463.2
162.5°	464.0	464.0	464.3	464.7	465.1	465.5	466.1	466.6	467.2	467.7	467.6
165°	469.9	469.9	470.1	470.3	470.6	470.8	471.3	471.9	472.4	473.0	473.0
167.5°	474.4	474.3	474.5	474.7	475.0	475.2	475.7	476.3	476.8	477.4	477.3
170°	477.0	476.8	477.0	477.1	477.3	477.4	477.9	478.5	479.1	479.6	479.5
172.5°	478.6	478.5	478.6	478.7	478.9	479.1	479.6	480.1	480.7	481.3	481.2
175°	480.5	480.3	480.5	480.6	480.7	480.9	481.4	482.0	482.5	483.1	483.0
177.5°	481.3	481.0	481.1	481.2	481.3	481.3	481.8	482.2	482.6	483.1	483.0
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1150.1	1150.8	1149.8	1150.5	1149.8	1150.8	1150.1	1153.8	1154.5	1155.1	1154.5
5°	1071.6	1066.7	1065.8	1064.5	1065.8	1066.7	1071.6	1073.7	1075.4	1078.7	1084.5
7.5°	978.0	977.1	975.1	972.2	975.1	977.1	978.0	985.0	990.8	997.2	1009.1
10°	917.6	915.6	915.2	912.2	915.2	915.6	917.6	926.8	933.4	942.6	958.9
12.5°	847.1	833.6	832.3	825.0	832.3	833.6	847.1	858.9	876.9	885.7	902.9
15°	721.2	718.8	710.4	705.0	710.4	718.8	721.2	731.2	737.8	762.0	789.9
17.5°	649.3	641.2	638.5	637.4	638.5	641.2	649.3	654.1	663.7	676.4	693.2
20°	603.0	595.6	594.3	593.5	594.3	595.6	603.0	608.9	616.4	630.1	647.6
22.5°	571.0	563.2	560.0	557.5	560.0	563.2	571.0	575.6	582.4	593.1	605.0
25°	516.5	513.6	511.9	511.0	511.9	513.6	516.5	520.7	527.3	541.8	554.3
27.5°	473.8	467.3	466.1	464.0	466.1	467.3	473.8	481.2	488.1	494.6	505.8
30°	449.5	447.4	444.5	442.0	444.5	447.4	449.5	453.2	457.8	469.0	479.9
32.5°	420.9	419.1	416.5	415.3	416.5	419.1	420.9	425.9	435.5	442.4	450.2
35°	389.1	383.3	380.8	377.1	380.8	383.3	389.1	393.3	397.1	402.8	417.0
37.5°	355.6	352.5	349.0	350.3	349.0	352.5	355.6	357.3	365.3	373.3	379.4
40°	329.6	327.5	326.7	326.3	326.7	327.5	329.6	335.0	344.6	348.3	357.5
42.5°	309.0	303.2	301.1	301.0	301.1	303.2	309.0	315.0	321.0	327.0	336.6
45°	277.6	272.1	268.4	268.9	268.4	272.1	277.6	279.6	284.6	296.8	302.1
47.5°	245.5	245.3	243.0	243.7	243.0	245.3	245.5	249.1	255.4	262.9	271.5
50°	230.2	227.6	226.0	226.4	226.0	227.6	230.2	233.1	236.8	240.5	253.9
52.5°	215.5	213.4	212.0	213.8	212.0	213.4	215.5	217.1	219.8	223.6	232.5
55°	191.4	188.9	188.5	188.1	188.5	188.9	191.4	193.6	196.8	199.7	203.9
57.5°	164.5	162.9	160.4	159.3	160.4	162.9	164.5	167.6	171.6	175.5	179.8
60°	145.2	141.9	137.8	137.3	137.8	141.9	145.2	150.7	152.3	158.2	163.1
62.5°	127.6	126.9	126.1	126.0	126.1	126.9	127.6	129.3	131.7	140.1	146.2
65°	111.9	111.5	111.9	112.3	111.9	111.5	111.9	112.8	113.2	114.1	116.5
67.5°	97.6	96.8	96.0	96.4	96.0	96.8	97.6	97.8	98.9	99.4	101.1
70°	86.6	86.2	85.8	85.8	85.8	86.2	86.6	87.4	88.2	89.0	91.2
72.5°	75.9	75.8	75.4	75.1	75.4	75.8	75.9	77.4	77.9	78.8	80.1
75°	60.7	59.9	59.9	59.9	59.9	59.9	60.7	61.1	61.6	62.9	63.7
77.5°	46.3	45.9	45.4	45.1	45.4	45.9	46.3	46.4	47.0	47.3	48.2
80°	36.6	36.2	35.8	35.8	35.8	36.2	36.6	37.0	37.0	38.3	37.9
82.5°	28.0	27.6	27.5	27.1	27.5	27.6	28.0	28.0	28.0	28.9	28.9
85°	15.0	15.4	15.0	15.8	15.0	15.4	15.0	14.6	15.0	15.8	15.8
87.5°	6.1	5.8	6.2	5.9	6.2	5.8	6.1	6.1	6.4	6.3	6.2
90°	9.0	9.1	9.3	9.4	9.3	9.1	9.0	8.8	8.5	8.2	7.7
92.5°	9.1	9.2	9.3	9.4	9.3	9.2	9.1	9.0	8.9	8.7	8.5
95°	15.2	15.2	15.1	15.0	15.1	15.2	15.2	15.3	15.2	14.8	14.3
97.5°	19.7	19.8	19.9	20.0	19.9	19.8	19.7	19.6	19.4	19.2	18.8
100°	22.9	23.1	23.2	23.3	23.2	23.1	22.9	22.7	22.3	21.7	21.1
102.5°	24.4	24.6	24.8	25.0	24.8	24.6	24.4	24.1	23.6	22.8	22.0
105°	25.5	25.8	26.2	26.5	26.2	25.8	25.5	25.3	24.7	23.8	23.0
107.5°	26.3	26.7	26.9	27.2	26.9	26.7	26.3	26.0	26.3	27.1	28.0
110°	26.6	26.9	27.2	27.6	27.2	26.9	26.6	26.3	30.0	37.7	45.5



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.1	27.3	27.6	27.8	27.6	27.3	27.1	26.8	40.8	69.1	97.3
115°	45.3	39.7	34.2	28.5	34.2	39.7	45.3	50.9	71.6	107.5	143.3
117.5°	171.6	153.3	135.0	116.7	135.0	153.3	171.6	190.0	203.4	212.1	220.8
120°	243.9	233.5	223.0	212.5	223.0	233.5	243.9	254.4	259.2	258.2	257.3
122.5°	271.3	269.3	267.3	265.2	267.3	269.3	271.3	273.4	274.1	273.5	273.0
125°	297.3	297.5	297.7	297.9	297.7	297.5	297.3	297.0	296.6	296.1	295.5
127.5°	318.5	318.5	318.5	318.5	318.5	318.5	318.5	318.4	318.0	317.2	316.4
130°	331.7	331.6	331.5	331.4	331.5	331.6	331.7	331.7	331.3	330.4	329.6
132.5°	344.1	344.1	344.1	344.0	344.1	344.1	344.1	344.2	343.9	343.2	342.5
135°	362.6	362.4	362.2	362.1	362.2	362.4	362.6	362.6	362.4	361.6	360.9
137.5°	379.4	379.1	378.9	378.5	378.9	379.1	379.4	379.6	379.4	378.6	377.9
140°	390.0	389.6	389.3	388.9	389.3	389.6	390.0	390.4	390.3	389.6	388.9
142.5°	400.1	399.7	399.3	398.9	399.3	399.7	400.1	400.5	400.4	399.7	399.1
145°	414.1	413.7	413.4	412.9	413.4	413.7	414.1	414.5	414.4	413.8	413.4
147.5°	426.2	425.9	425.6	425.3	425.6	425.9	426.2	426.6	426.6	426.2	425.7
150°	434.0	433.6	433.2	432.8	433.2	433.6	434.0	434.4	434.3	433.8	433.4
152.5°	440.8	440.3	439.7	439.2	439.7	440.3	440.8	441.2	441.3	440.8	440.3
155°	450.0	449.4	448.7	448.2	448.7	449.4	450.0	450.6	450.7	450.2	449.8
157.5°	458.1	457.5	456.9	456.3	456.9	457.5	458.1	458.7	458.8	458.2	457.7
160°	462.7	462.1	461.5	461.1	461.5	462.1	462.7	463.2	463.3	462.8	462.3
162.5°	466.9	466.3	465.6	465.0	465.6	466.3	466.9	467.6	467.7	467.2	466.6
165°	472.4	471.9	471.3	470.8	471.3	471.9	472.4	473.0	473.0	472.4	471.9
167.5°	476.5	475.9	475.2	474.5	475.2	475.9	476.5	477.3	477.4	476.8	476.3
170°	478.8	478.1	477.4	476.7	477.4	478.1	478.8	479.5	479.6	479.1	478.5
172.5°	480.5	479.8	479.1	478.4	479.1	479.8	480.5	481.2	481.3	480.7	480.1
175°	482.2	481.4	480.6	479.9	480.6	481.4	482.2	483.0	483.1	482.5	482.0
177.5°	482.4	481.8	481.3	480.8	481.3	481.8	482.4	483.0	483.1	482.6	482.2
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1151.8	1156.4	1163.4	1167.4	1174.1	1178.4	1180.8	1185.1	1187.4	1195.7	1204.4
5°	1087.4	1094.1	1105.8	1116.6	1128.2	1140.3	1149.1	1159.0	1168.2	1184.0	1200.7
7.5°	1013.7	1023.0	1041.0	1058.3	1078.6	1095.6	1110.7	1127.7	1143.0	1165.6	1189.3
10°	958.5	974.7	998.4	1014.6	1041.3	1058.3	1082.1	1100.7	1122.0	1151.9	1178.6
12.5°	910.9	930.4	949.4	972.0	996.0	1024.3	1050.4	1074.5	1099.7	1130.7	1162.0
15°	824.4	852.7	882.3	905.1	937.7	967.6	998.0	1030.5	1061.3	1098.3	1139.1
17.5°	713.2	746.0	795.7	834.9	873.0	903.1	940.7	980.0	1016.3	1060.9	1106.4
20°	663.0	687.1	720.8	773.6	831.1	863.2	901.4	944.7	986.3	1035.0	1083.7
22.5°	622.6	644.2	671.2	712.4	776.5	820.2	860.1	904.1	952.4	1002.1	1056.1
25°	565.2	580.2	608.5	641.7	685.8	757.8	801.5	845.6	898.1	951.4	1012.9
27.5°	522.0	535.4	553.8	585.6	618.4	670.1	739.6	787.7	840.0	899.9	963.8
30°	489.0	504.8	525.2	547.7	583.5	623.9	693.3	749.1	800.7	862.3	930.6
32.5°	465.0	477.5	494.9	517.7	547.6	586.2	641.7	709.5	759.8	824.7	895.9
35°	425.7	440.3	454.4	476.1	500.3	535.7	577.6	650.0	700.0	764.1	835.7
37.5°	393.4	402.3	417.9	435.0	460.6	486.9	523.3	588.3	642.3	705.2	778.5
40°	368.8	379.9	391.6	410.7	431.5	457.0	492.8	541.0	603.0	664.6	736.2
42.5°	344.8	359.0	371.3	384.1	406.9	432.4	461.5	502.4	565.7	624.0	693.6
45°	315.8	325.1	337.9	352.0	370.8	392.5	418.2	454.0	514.8	565.2	630.5
47.5°	282.3	295.6	304.0	317.9	335.7	356.3	380.3	411.2	460.5	507.7	568.3
50°	259.3	273.0	285.1	297.6	313.4	333.4	353.4	383.3	422.8	472.4	529.0
52.5°	239.6	251.7	263.4	275.9	291.4	309.7	328.7	355.0	388.9	434.4	489.3
55°	212.6	220.1	232.2	244.7	258.4	275.9	294.2	316.3	345.4	383.7	428.3
57.5°	185.0	193.7	203.3	215.8	229.8	243.1	259.6	279.6	302.6	337.2	375.3
60°	169.4	176.0	183.9	196.8	209.8	221.8	237.7	254.3	275.9	305.9	338.3
62.5°	152.1	158.4	165.7	176.8	189.5	200.5	214.3	232.0	250.3	277.6	306.1
65°	123.2	132.3	139.4	149.4	159.8	171.5	182.3	196.4	212.6	234.3	259.7
67.5°	102.2	106.8	113.3	122.5	133.1	143.1	153.4	164.4	178.5	195.2	215.3
70°	92.8	94.5	95.7	104.4	114.5	124.4	134.0	144.4	156.5	170.2	187.7
72.5°	81.9	83.5	85.0	88.8	96.8	106.8	116.7	124.4	135.8	147.2	161.4
75°	64.9	67.4	68.6	70.8	73.7	80.3	89.4	96.9	103.6	112.3	123.6
77.5°	49.4	50.9	52.2	54.4	56.2	59.3	64.4	71.2	77.4	82.5	90.3
80°	39.1	39.5	41.2	42.1	44.5	46.6	49.1	54.5	60.7	62.9	68.2
82.5°	29.4	29.9	31.2	32.0	33.2	35.0	38.2	39.5	44.4	47.2	50.6
85°	16.2	15.8	17.0	17.0	17.9	18.8	19.6	21.6	22.9	26.3	27.1
87.5°	6.4	6.4	6.6	6.4	6.4	6.9	7.1	7.3	7.7	8.6	9.7
90°	7.3	6.9	6.4	5.7	5.1	4.5	3.8	2.9	2.0	1.2	0.3
92.5°	8.3	8.1	7.7	7.5	7.2	6.8	6.8	6.8	6.8	6.9	7.0
95°	13.9	13.6	13.0	12.5	12.0	11.4	12.4	15.0	17.5	20.1	22.7
97.5°	18.5	18.2	17.0	15.7	14.4	13.2	16.1	23.3	30.6	37.7	44.9
100°	20.5	19.9	18.5	17.2	15.9	14.6	19.2	29.8	40.4	51.0	61.7
102.5°	21.2	20.4	31.5	42.5	53.5	64.5	71.1	73.4	75.6	77.9	80.1
105°	22.1	21.3	42.4	63.5	84.7	105.8	115.2	112.9	110.6	108.3	105.9
107.5°	28.9	29.8	55.1	80.5	105.8	131.2	142.9	141.0	139.2	137.3	135.4
110°	53.2	61.0	83.3	105.7	128.1	150.5	160.9	159.2	157.6	156.0	154.3



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	125.6	153.8	159.3	164.9	170.4	175.9	178.0	176.5	175.1	173.7	172.2
115°	179.1	215.0	213.0	211.2	209.2	207.2	205.6	204.3	203.0	201.7	200.4
117.5°	229.5	238.1	236.8	235.5	234.2	232.8	231.4	229.9	228.4	227.0	225.5
120°	256.3	255.4	254.0	252.7	251.3	249.9	248.6	247.4	246.2	245.1	243.9
122.5°	272.5	271.9	270.4	268.8	267.3	265.8	264.4	263.2	262.0	260.7	259.5
125°	295.0	294.5	293.0	291.6	290.1	288.5	287.3	286.3	285.4	284.3	283.3
127.5°	315.6	314.8	313.7	312.6	311.5	310.4	309.3	308.2	307.0	306.0	304.8
130°	328.7	327.9	327.1	326.2	325.4	324.5	323.4	322.2	321.0	319.8	318.5
132.5°	341.8	341.0	340.1	339.3	338.4	337.6	336.6	335.6	334.5	333.5	332.5
135°	360.0	359.3	358.6	357.9	357.2	356.4	355.6	354.2	353.0	351.8	350.6
137.5°	377.1	376.3	375.5	374.8	374.0	373.2	372.3	371.5	370.6	369.7	368.9
140°	388.2	387.5	386.6	385.8	385.0	384.1	383.4	382.7	382.1	381.5	380.9
142.5°	398.4	397.8	396.8	395.8	394.8	394.0	393.1	392.6	392.0	391.5	390.9
145°	412.8	412.2	410.9	409.6	408.3	407.0	406.3	406.4	406.5	406.6	406.7
147.5°	425.3	424.9	423.6	422.3	421.0	419.7	419.2	419.6	419.8	420.1	420.4
150°	432.9	432.4	431.2	430.0	428.8	427.5	427.1	427.7	428.2	428.8	429.3
152.5°	439.9	439.4	438.2	437.1	435.9	434.7	434.4	435.0	435.6	436.3	436.8
155°	449.3	448.8	447.9	446.9	446.1	445.2	445.0	445.7	446.4	447.1	447.8
157.5°	457.1	456.6	456.0	455.3	454.7	454.0	454.0	454.6	455.2	455.8	456.3
160°	461.9	461.4	460.9	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4
162.5°	466.1	465.5	465.1	464.7	464.3	464.0	464.0	464.5	464.9	465.4	465.9
165°	471.3	470.8	470.6	470.3	470.1	469.9	469.9	470.4	470.9	471.4	471.8
167.5°	475.7	475.2	475.0	474.7	474.5	474.3	474.4	474.9	475.4	475.8	476.3
170°	477.9	477.4	477.3	477.1	477.0	476.8	477.0	477.4	477.8	478.3	478.8
172.5°	479.6	479.1	478.9	478.7	478.6	478.5	478.6	479.1	479.6	480.0	480.5
175°	481.4	480.9	480.7	480.6	480.5	480.3	480.5	481.0	481.5	482.1	482.7
177.5°	481.8	481.3	481.3	481.2	481.1	481.0	481.3	481.7	482.1	482.6	483.0
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1204.8	1205.7	1212.4	1215.4	1221.4	1223.7	1226.4	1225.7	1225.7	1227.0	1236.4
5°	1207.3	1215.6	1228.1	1240.2	1251.8	1261.8	1268.5	1275.1	1277.7	1289.7	1300.6
7.5°	1203.0	1218.3	1238.9	1257.4	1279.4	1296.7	1310.9	1323.9	1332.7	1350.2	1368.2
10°	1197.3	1219.0	1242.3	1266.0	1296.4	1319.2	1342.6	1360.5	1366.3	1392.5	1407.5
12.5°	1186.0	1215.0	1244.6	1275.3	1305.0	1336.6	1362.2	1380.1	1400.6	1424.2	1451.8
15°	1169.1	1202.3	1241.0	1280.6	1323.0	1361.3	1388.8	1420.0	1442.4	1468.3	1492.4
17.5°	1144.6	1187.5	1236.7	1282.5	1331.5	1372.7	1410.5	1440.5	1456.3	1471.0	1474.6
20°	1125.4	1171.5	1229.4	1283.4	1332.6	1380.1	1417.5	1442.4	1446.6	1447.0	1425.0
22.5°	1104.3	1156.5	1217.1	1272.5	1331.2	1384.1	1413.2	1423.8	1407.3	1379.1	1336.4
25°	1065.8	1126.2	1196.5	1259.7	1323.9	1373.8	1383.8	1365.1	1307.2	1246.4	1169.5
27.5°	1024.0	1091.8	1167.3	1237.6	1305.9	1336.8	1315.2	1247.7	1143.5	1053.0	943.2
30°	993.4	1069.6	1143.6	1222.3	1285.6	1298.9	1249.4	1149.9	1028.3	891.9	782.4
32.5°	958.5	1038.3	1119.7	1201.0	1253.9	1241.0	1159.1	1036.7	894.2	760.0	656.6
35°	908.5	990.9	1078.7	1160.3	1194.0	1137.8	1015.5	856.1	710.4	585.1	514.0
37.5°	850.8	940.5	1031.8	1106.8	1104.3	1010.7	844.1	679.6	557.1	483.0	432.4
40°	809.8	900.6	999.2	1062.5	1035.4	913.5	732.9	577.6	488.2	429.1	392.0
42.5°	770.6	861.6	959.6	1009.9	962.9	812.9	633.0	511.4	437.6	391.4	361.4
45°	703.8	799.9	890.6	918.5	834.5	669.2	511.9	423.6	374.5	340.5	319.6
47.5°	638.4	733.0	815.8	816.3	702.5	542.7	431.8	366.6	324.7	298.3	283.2
50°	598.4	688.4	757.8	747.1	618.0	482.7	386.2	330.0	295.1	274.7	258.9
52.5°	553.5	640.7	700.9	670.1	546.4	424.9	345.3	298.1	269.1	251.4	237.3
55°	488.2	565.6	608.1	561.4	445.7	353.4	291.7	254.7	233.1	218.1	206.0
57.5°	424.0	487.9	514.5	460.3	367.1	293.0	246.8	219.0	197.5	186.8	180.5
60°	383.7	438.2	457.0	397.1	319.2	256.3	218.5	192.7	176.8	169.8	163.5
62.5°	344.1	388.7	396.4	341.4	278.3	224.4	191.8	170.1	159.6	152.8	146.9
65°	285.5	317.6	313.8	269.7	220.1	178.1	154.4	141.0	133.1	123.6	113.2
67.5°	235.1	254.6	242.8	209.8	168.0	138.4	122.9	112.8	103.1	94.0	91.6
70°	203.1	214.3	201.9	171.5	137.8	116.1	103.6	91.6	85.8	83.6	79.9
72.5°	172.4	176.3	162.9	136.8	112.1	96.1	84.0	77.2	74.1	72.3	70.0
75°	129.5	126.5	114.9	94.5	77.9	67.0	63.3	60.7	58.7	57.0	55.8
77.5°	90.9	86.7	76.2	62.9	54.2	49.0	46.8	45.4	44.4	43.6	42.4
80°	68.2	65.3	55.0	44.9	41.2	38.7	37.4	35.8	35.8	35.0	33.7
82.5°	50.0	46.7	37.6	32.9	30.9	29.4	28.5	27.5	27.1	27.3	26.4
85°	26.3	21.2	18.8	17.9	16.6	15.8	16.2	15.4	15.4	15.4	15.0
87.5°	8.2	6.8	6.6	6.4	6.9	7.0	6.8	6.9	7.4	7.1	7.6
90°	1.2	2.0	2.9	3.8	4.5	5.1	5.7	6.4	6.9	7.3	7.7
92.5°	6.9	6.8	6.8	6.8	6.8	7.2	7.5	7.7	8.1	8.3	8.5
95°	20.1	17.5	15.0	12.4	11.4	12.0	12.5	13.0	13.6	13.9	14.3
97.5°	37.7	30.6	23.3	16.1	13.2	14.4	15.7	17.0	18.2	18.5	18.8
100°	51.0	40.4	29.8	19.2	14.6	15.9	17.2	18.5	19.9	20.5	21.1
102.5°	77.9	75.6	73.4	71.1	64.5	53.5	42.5	31.5	20.4	21.2	22.0
105°	108.3	110.6	112.9	115.2	105.8	84.7	63.5	42.4	21.3	22.1	23.0
107.5°	137.3	139.2	141.0	142.9	131.2	105.8	80.5	55.1	29.8	28.9	28.0
110°	156.0	157.6	159.2	160.9	150.5	128.1	105.7	83.3	61.0	53.2	45.5



TEST NUMBER: P331805-930

CATALOG NUMBER: S122RDIW-S675D435U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.7	175.1	176.5	178.0	175.9	170.4	164.9	159.3	153.8	125.6	97.3
115°	201.7	203.0	204.3	205.6	207.2	209.2	211.2	213.0	215.0	179.1	143.3
117.5°	227.0	228.4	229.9	231.4	232.8	234.2	235.5	236.8	238.1	229.5	220.8
120°	245.1	246.2	247.4	248.6	249.9	251.3	252.7	254.0	255.4	256.3	257.3
122.5°	260.7	262.0	263.2	264.4	265.8	267.3	268.8	270.4	271.9	272.5	273.0
125°	284.3	285.4	286.3	287.3	288.5	290.1	291.6	293.0	294.5	295.0	295.5
127.5°	306.0	307.0	308.2	309.3	310.4	311.5	312.6	313.7	314.8	315.6	316.4
130°	319.8	321.0	322.2	323.4	324.5	325.4	326.2	327.1	327.9	328.7	329.6
132.5°	333.5	334.5	335.6	336.6	337.6	338.4	339.3	340.1	341.0	341.8	342.5
135°	351.8	353.0	354.2	355.6	356.4	357.2	357.9	358.6	359.3	360.0	360.9
137.5°	369.7	370.6	371.5	372.3	373.2	374.0	374.8	375.5	376.3	377.1	377.9
140°	381.5	382.1	382.7	383.4	384.1	385.0	385.8	386.6	387.5	388.2	388.9
142.5°	391.5	392.0	392.6	393.1	394.0	394.8	395.8	396.8	397.8	398.4	399.1
145°	406.6	406.5	406.4	406.3	407.0	408.3	409.6	410.9	412.2	412.8	413.4
147.5°	420.1	419.8	419.6	419.2	419.7	421.0	422.3	423.6	424.9	425.3	425.7
150°	428.8	428.2	427.7	427.1	427.5	428.8	430.0	431.2	432.4	432.9	433.4
152.5°	436.3	435.6	435.0	434.4	434.7	435.9	437.1	438.2	439.4	439.9	440.3
155°	447.1	446.4	445.7	445.0	445.2	446.1	446.9	447.9	448.8	449.3	449.8
157.5°	455.8	455.2	454.6	454.0	454.0	454.7	455.3	456.0	456.6	457.1	457.7
160°	460.9	460.5	460.0	459.5	459.5	460.0	460.5	460.9	461.4	461.9	462.3
162.5°	465.4	464.9	464.5	464.0	464.0	464.3	464.7	465.1	465.5	466.1	466.6
165°	471.4	470.9	470.4	469.9	469.9	470.1	470.3	470.6	470.8	471.3	471.9
167.5°	475.8	475.4	474.9	474.4	474.3	474.5	474.7	475.0	475.2	475.7	476.3
170°	478.3	477.8	477.4	477.0	476.8	477.0	477.1	477.3	477.4	477.9	478.5
172.5°	480.0	479.6	479.1	478.6	478.5	478.6	478.7	478.9	479.1	479.6	480.1
175°	482.1	481.5	481.0	480.5	480.3	480.5	480.6	480.7	480.9	481.4	482.0
177.5°	482.6	482.1	481.7	481.3	481.0	481.1	481.2	481.3	481.3	481.8	482.2
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1239.7	1244.0	1246.0	1246.0	1248.4	1247.3	1246.3
5°	1310.9	1318.8	1320.5	1328.0	1333.4	1331.7	1332.6
7.5°	1381.8	1394.5	1407.0	1412.8	1413.7	1417.1	1418.3
10°	1425.4	1435.8	1455.4	1452.5	1467.0	1475.4	1461.6
12.5°	1467.4	1481.4	1494.9	1498.7	1507.0	1509.6	1504.2
15°	1505.3	1512.8	1513.6	1511.6	1514.0	1512.0	1504.1
17.5°	1469.8	1457.7	1433.1	1421.4	1412.2	1398.5	1393.0
20°	1411.2	1375.4	1333.8	1317.2	1297.6	1259.3	1268.5
22.5°	1284.7	1243.9	1202.3	1153.7	1130.5	1094.2	1092.0
25°	1087.9	1017.6	940.1	886.1	854.4	818.2	802.4
27.5°	845.8	757.2	693.8	661.7	632.5	603.8	602.6
30°	686.6	620.1	571.0	543.6	525.6	513.6	516.1
32.5°	578.8	533.2	500.1	477.3	464.1	454.9	454.8
35°	473.2	442.0	420.8	411.2	401.6	394.9	395.3
37.5°	405.0	386.2	374.4	363.8	357.8	354.6	352.8
40°	370.0	354.6	345.4	339.2	334.2	329.6	328.8
42.5°	342.3	329.6	320.4	315.5	310.9	307.6	306.8
45°	303.8	293.4	285.1	279.6	277.6	274.7	274.7
47.5°	270.3	260.0	253.6	250.1	246.5	244.6	244.5
50°	247.6	239.7	233.9	231.8	228.9	227.6	227.2
52.5°	227.3	221.4	217.3	215.8	214.6	213.0	213.3
55°	199.7	196.4	194.8	193.6	191.4	188.9	190.6
57.5°	176.5	173.7	169.3	165.3	163.4	161.7	162.3
60°	160.2	154.4	148.5	144.0	142.8	139.0	139.0
62.5°	139.6	131.4	124.3	121.7	120.4	118.7	118.4
65°	107.4	104.0	102.4	100.7	99.9	99.9	99.1
67.5°	88.9	87.6	85.9	85.4	84.5	84.3	84.1
70°	78.7	77.0	76.1	75.7	74.9	75.3	74.1
72.5°	68.6	67.3	67.2	66.1	65.6	65.6	64.7
75°	54.1	54.1	53.6	53.2	52.4	52.0	52.4
77.5°	41.6	41.7	40.9	40.8	40.8	40.8	40.4
80°	33.3	33.7	33.3	32.9	32.4	32.9	32.4
82.5°	26.3	25.7	25.6	25.5	25.4	25.2	25.1
85°	15.0	15.4	15.0	14.6	14.6	14.6	15.0
87.5°	7.3	7.3	7.4	7.4	7.5	7.5	7.2
90°	8.2	8.5	8.8	9.0	9.1	9.3	9.4
92.5°	8.7	8.9	9.0	9.1	9.2	9.3	9.4
95°	14.8	15.2	15.3	15.2	15.2	15.1	15.0
97.5°	19.2	19.4	19.6	19.7	19.8	19.9	20.0
100°	21.7	22.3	22.7	22.9	23.1	23.2	23.3
102.5°	22.8	23.6	24.1	24.4	24.6	24.8	25.0
105°	23.8	24.7	25.3	25.5	25.8	26.2	26.5
107.5°	27.1	26.3	26.0	26.3	26.7	26.9	27.2
110°	37.7	30.0	26.3	26.6	26.9	27.2	27.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	69.1	40.8	26.8	27.1	27.3	27.6	27.8
115°	107.5	71.6	50.9	45.3	39.7	34.2	28.5
117.5°	212.1	203.4	190.0	171.6	153.3	135.0	116.7
120°	258.2	259.2	254.4	243.9	233.5	223.0	212.5
122.5°	273.5	274.1	273.4	271.3	269.3	267.3	265.2
125°	296.1	296.6	297.0	297.3	297.5	297.7	297.9
127.5°	317.2	318.0	318.4	318.5	318.5	318.5	318.5
130°	330.4	331.3	331.7	331.7	331.6	331.5	331.4
132.5°	343.2	343.9	344.2	344.1	344.1	344.1	344.0
135°	361.6	362.4	362.6	362.6	362.4	362.2	362.1
137.5°	378.6	379.4	379.6	379.4	379.1	378.9	378.5
140°	389.6	390.3	390.4	390.0	389.6	389.3	388.9
142.5°	399.7	400.4	400.5	400.1	399.7	399.3	398.9
145°	413.8	414.4	414.5	414.1	413.7	413.4	412.9
147.5°	426.2	426.6	426.6	426.2	425.9	425.6	425.3
150°	433.8	434.3	434.4	434.0	433.6	433.2	432.8
152.5°	440.8	441.3	441.2	440.8	440.3	439.7	439.2
155°	450.2	450.7	450.6	450.0	449.4	448.7	448.2
157.5°	458.2	458.8	458.7	458.1	457.5	456.9	456.3
160°	462.8	463.3	463.2	462.7	462.1	461.5	461.1
162.5°	467.2	467.7	467.6	466.9	466.3	465.6	465.0
165°	472.4	473.0	473.0	472.4	471.9	471.3	470.8
167.5°	476.8	477.4	477.3	476.5	475.9	475.2	474.5
170°	479.1	479.6	479.5	478.8	478.1	477.4	476.7
172.5°	480.7	481.3	481.2	480.5	479.8	479.1	478.4
175°	482.5	483.1	483.0	482.2	481.4	480.6	479.9
177.5°	482.6	483.1	483.0	482.4	481.8	481.3	480.8
180°	481.6	481.6	481.6	481.6	481.6	481.6	481.6

(END OF REPORT)